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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/054,267	01/22/2002	Mineyuki Inoue	040106.90055	6314

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EXAMINER

TILL, TERRENCE R

ART UNIT	PAPER NUMBER
	1744

DATE MAILED: 12/08/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/054,267	INOUE ET AL.
Examiner	Art Unit	
	Terrence R. Till	1744

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on ____.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-14 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) Claim(s) _____ is/are allowed.
6) Claim(s) 1-14 is/are rejected.
7) Claim(s) _____ is/are objected to.
8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 20 December 2002 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) The translation of the foreign language provisional application has been received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). _____
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 24 . 6) Other: _____

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the attachment portion mounted to the vacuum tube must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

2. Claim 1 gives an alternative mounting for the attachment portion: to the cleaner body or the vacuum tube. The specification (page 5, lines 20-25) mentions that the attachment portion 14 is provided at the bottom of the cleaner body.

Specification

3. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: The specification does not mention the attachment portion mounted to the vacuum tube.

4. The disclosure is objected to because of the following informalities: On page 8, line 21, "21formed" should be --21 formed--. On page 8, line 25, "flitters" should be --filters--.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

7. In claim 1, applicant recites a vortex flow generating member being either the shape of a short cylinder or a truncated cone. Applicant then recites a second vent hole provided "at another side surface". Cones and cylinders only have 1 side surface. This makes the claim confusing.

Allowable Subject Matter

8. Claims 1-14, as best understood, would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

9. The following is a statement of reasons for the indication of allowable subject matter: The prior art does not disclose nor render obvious the claimed combination of subject matter of a cyclonic vacuum cleaner which comprises a cleaner body with a fan unit; a vacuum tube having a suction hole at a distal end thereof, a dust collection container which is approximately cylinder-shaped, having a bottom; an attachment portion for detachably attaching said dust collection container, said attachment portion being mounted to the cleaner body or to the vacuum tube; a first air path extending from said suction hole to said attachment portion in a manner capable of communicating with said dust collection container; a second air path extending from said attachment portion to said fan unit, communicating with said dust collection container, wherein: a vortex flow generating member for generating a vortex flow in said dust collection container is

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provided in an opening of said dust collection container, said vortex flow generating member comprising: a base which is formed into a shape of a short cylinder or a truncated cone; an airflow guide provided on a side surface of said base; a first vent hole provided at an end of said base; a second vent hole provided at the side surface of said base; and a filter provided in each of said first and second vent holes.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patents to Van Der Molen, Scalfani et al. and Sepke et al. show the current state of the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to T. Till whose telephone number is (703) 308-1592.

Any inquiry of a general nature concerning the status of this application should be directed to the receptionist of Technology Center 2 whose telephone number is (703) 308-0661.

Any responses made by facsimile should be addressed to T. Till at (703) 872-9310.

In mid-December of 2003, the examiner will be moving locations and changing phone numbers. The following information will apply:

New phone number: (571) 272-1280



TERRENCE R. TILL
PRIMARY EXAMINER
ART UNIT 1744

trt

December 3, 2003